ANEMOMETER

DVM1301

INSTRUCTION MANUAL

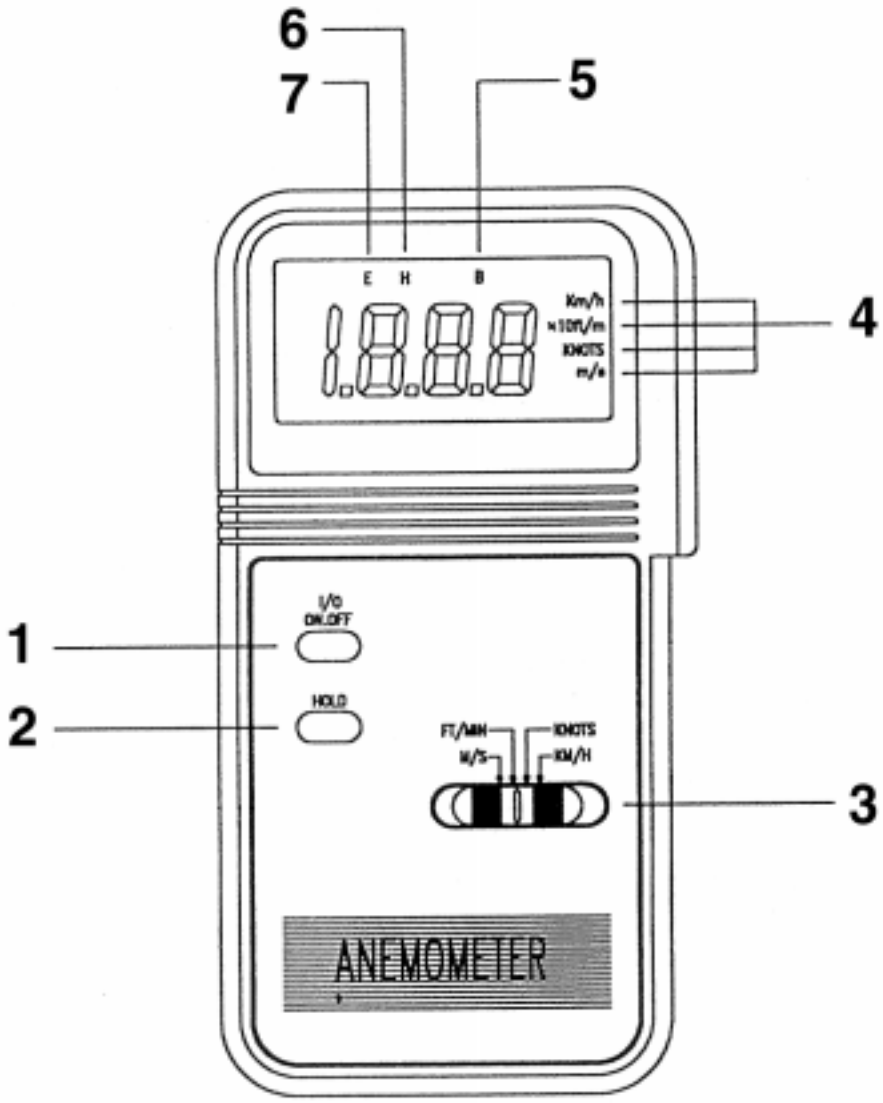
HANDLEIDING

MANUEL D'UTILISATEUR

FEATURES

- Sensitive and accurate (ultra low-friction jewel bearing)
- Ergonomic and easy-to-use design.
- Read while measuring (detached vane)
- Large 17mm 3 1/2 digits LCD (Liquid Crystal Display)
- 2 meters coiled cable and mounting nut for long extension
- Low power consumption
- Data / Max. hold function
- Built-in low battery indicator

FRONT PANEL DESCRIPTION



1 On/Off push button
2. Data hold button
3. Function selection switch
4. Units symbols of velocity
5. Battery low symbol
6. Data hold symbol
7. Error symbol

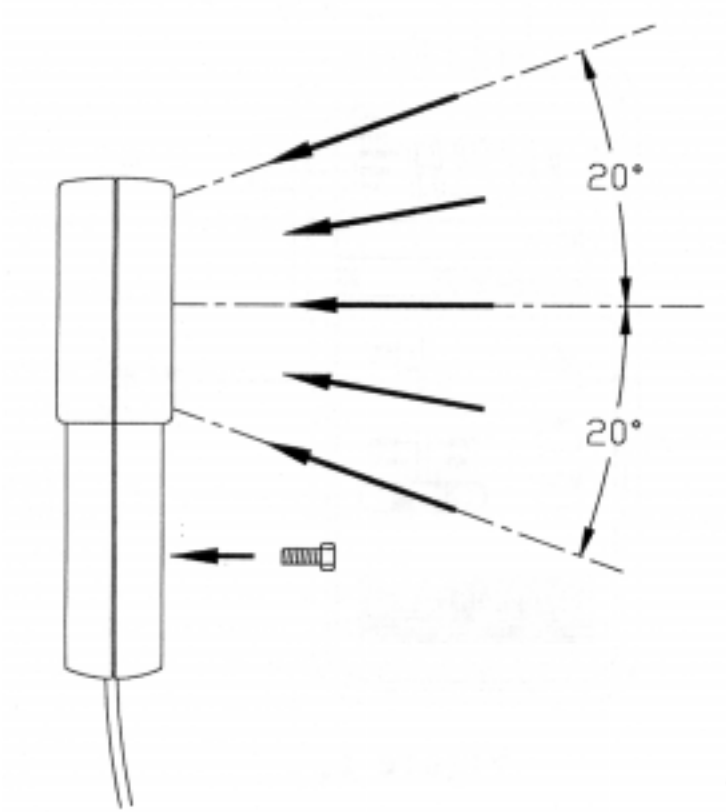
OPERATING INSTRUCTIONS

Measurement of wind velocity

1. Press the on / off button to turn on the anemometer.
2. Select the desired units by moving the unit selection switch.
3. Determine the approximate wind direction.
4. Hold the anemometer so that the air flow will pass through the vane from the back to the front (the back : where the mounting nut is ; the front : where ’ANEMOMETER’ is engraved).
5. Wait for 4 seconds for a stabilised reading.
6. For more accurate results, try to keep the axis of the vane within 20° of the wind direction.

Holding the reading

Press the hold button to hold the reading of wind velocity.



SPECIFICATIONS

Range of wind velocity

Units	Range	Resolution	Threshold	Accuracy
m/s	0.0 ~ 45.0	0.1	0.3	±3% ± 0.1
ft/min	0 ~ 8800	10	60	±3% ± 10
knots	0.0 ~88.0	0.1	0.6	±3% ± 0.1
km/h	0.0 ~ 100.0	0.1	1.0	±3% ± 0.1

m/s : meter per second
knots : nautical miles per hour
ft/min : foot per minute
km/h : kilometres per hour

Unit conversion table

	m/s	ft/min	knots	km/hr	mph
1m/s	1	196.87	1.944	3.60	2.24
1ft/min	0.00508	1	0.00987	0.01829	0.01138
1knot	0.5144	101.27	1	1.8519	1.1523
1km/h	0.2778	54.69	0.54	1	0.6222
1mph	0.4464	87.89	0.8679	1.6701	1

Bearing	sapphire jewel bearing
Mounting nut	1/4" x 20 (6.35mm x 20)
Operating temperature	meter : 0°C ~ 50°C (32°F ~ 122°F)
	vane : 0°C ~ 60°C (32°F ~ 140°F)
Operating humidity	less than 80% RH
Operating pressure	500mB ~ 2Bar
Storage temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Power consumption	approx. 6mA
Battery type	9V
Battery life	50 hours
Average period for wind speed measurement	
m/s	0.6sec. (approx.)
ft/min	1.2sec. (approx.)
knots	1.2sec. (approx.)
km/h	2.2sec. (approx.)
Dimensions	
Meter	88 x 168 x 26.2mm (3.46" x 6.61" x 1.03")
Vane	66 x 132 x 29.2mm (2.60" x 5.22" x 1.15")
Weight	350g (battery included)
	12.34oz.
Accessories	carrying case, user manual, 9V battery

BATTERY REPLACEMENT

When the 'low battery'-symbol is displayed on the LCD, follow the procedures below to replace the battery.

A. Turn off the anemometer by pushing the On/Off button.
B. Remove the screw of the battery compartment cover and remove the battery compartment cover.
C. Replace the old 9V battery with a new 9V battery.
D. Replace the battery compartment cover and fasten the screw.